AMENDMENTS TO THE CLAIMS

Docket No.: 20241/0205420-US0

The following listing of claims replaces all prior versions, and listings, of claims in this application.

Claim 1 (currently amended): A chemical compound represented by the formula [I]:

wherein R¹ represents a hydroxyl group, a halogen atom, a cyano group, a nitro group, a formyl group, a C₁-6 alkyl group which may be substituted by G¹, a C₂-6 alkenyl group, a C₂-6 alkynyl group, a C₁-6 haloalkyl group, a C₁-6 haloalkenyl group, a C₁-6 alkylcarbonyl group, a C₁-6 alkoxy group which may be substituted by G², a C₁-6 haloalkoxy group, a C₂-6 alkenyloxy group, a C₂-6 haloalkenyloxy group, a C₂-6 alkynyloxy group, a C₁-6 alkylcarbonyloxy group, a C₁-6 alkylthiocarbonyloxy group, an amino group which may be substituted by G³, a C₁-6 alkylthio group, a C₁-6 haloalkylthio group, a C₁-6 alkylsulfinyl group, a C₁-6 haloalkylsulfinyl group, a C₁-6 haloalkylsulfinyl group, a C₁-6 alkylsulfonyl group, a C₁-6 haloalkylsulfonyl group, a C₁-6 haloalkylsulfonyloxy group, a chive or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom, a dioxolanyl group which may be substituted by G⁴, a tetrahydrofuranyl group which may be substituted by G⁴, a dihydrofuranyl group, an oxadiazoyl group which may be substituted by G⁴, an

oxazolizinyl group which may be substituted by G^4 , an oxadiazolyl group which may be substituted by G^4 , an oxazolyl group which may be substituted by G^4 , or any one of substituents represented by the following formula:

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$$-OP(O)(OR^8)SR^9$$
 $-Y^1C(=Y^2)-Y^3R^8$
 $-O-A$
 $-CO_2-R^{10}$

$$\frac{11}{R^{11}}$$
 $\frac{12}{R^{12}}$
 $\frac{13}{R^{13}}$
 $\frac{14}{R^{13}}$

wherein R⁸ and R⁹-each independently-represents a C₁₋₆ alkyl group, Y¹, Y², and Y³ each independently represents an oxygen atom or a sulfur atom, A represents a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom and a nitrogen atom; a tetrahydrofuranyl group which may be substituted by G⁴, R¹⁰ represents a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₂₋₆ alkynyl group, a C₁₋₆ alkyl C₁₋₆ alkoxy group, a C₁₋₆ haloalkyl group, or a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom; a tetrahydrofuranyl group which may be substituted by G⁴, R¹¹ and R¹² each independently represents a hydrogen atom, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, or a C₂₋₆ alkynyl group, R¹³ and R¹⁴ each independently represents a C₁₋₆ alkyl group, and R¹³ and R¹⁴ may be bound together to form a ring, m represents 0 or an integer of 1 to 5,

 R^2 represents a halogen atom, a nitro group, a C_{1-6} alkyl group, a C_{1-6} alkoxy group, a C_{1-6} haloalkyl group, a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom, which may be substituted by G^4 , a pyrazolyl group, or a C_{1-6} haloalkoxy group, k represents 0 or an integer of 1 to 4,

 R^3 , R^{31} , R^4 , R^{41} , R^5 , R^{51} , R^6 , R^{61} , and R^7 each independently represents a hydrogen atom, a C_{1-6} alkyl group, a C_{1-6} alkoxycarbonyl group, or a C_{1-6} alkoxy group, and both R^3 and R^4 , or both

R⁵ and R⁶, may be are bound together to form a saturated ring, an azabicyclooctane core or an azabicyclononane core,

X represents an oxygen atom, a sulfur atom, a sulfinyl group, or a sulfonyl group,

 G^1 represents a hydroxyl group, a C_{1-6} alkoxycarbonyl group, a C_{1-6} alkoxy group, a C_{1-6} alkoxy C_{1-6} alkoxy group, a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom which may be substituted by G^4 , or a C_{3-6} cycloalkyl group,

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 G^2 represents a hydroxyl group, a cyano group, an amino group which may be substituted by G^4 , a C_{1-6} alkoxycarbonyl group, a C_{1-6} alkylthio group, a C_{1-6} alkylsulfonyl group, a C_{1-6} alkoxy group, a C_{1-6} alkoxy group, C_{3-6} cycloalkyl group, or a C_{6-10} aryl group which may be substituted by a halogen atom or a C_{1-6} alkyl group,

G³ represents a C₁₋₆ alkyl group, a C₁₋₆ alkylcarbonyl group, or a C₁₋₆ alkylsulfonyl group,

G⁴ represents a C₁₋₆ alkyl group, or a C₁₋₆ alkoxy group, and

n represents [[0 or]] 1,

or a salt or an N-oxide of the chemical compound represented by formula (I).

Claim 2 (previously presented): A chemical compound according to claim 1, wherein k is at least 1, and an \mathbb{R}^2 substituent is at the five position on the pyridine ring.

Claim 3 (previously presented): A chemical compound according to claim 1, wherein m is at least 1, and an R¹ substituent is at the two position on the benzene ring.

Claim 4-6 (canceled).

Claim 7 (previously presented): A chemical compound according to claim 2, wherein m is at least 1, and an R¹ substituent is at the two position on the benzene ring.

Claim 8-13 (canceled).

Claim 14 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

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Claim 15 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

Claim 16 (new): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

Claim 17 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.

Claim 18 (new): A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

Claim 19 (**new**): A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

Claim 20 (**new**): A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

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Claim 21 (**new**): A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.

Claim 22 (**new**): A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

Claim 23 (**new**): A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

Claim 24 (**new**): A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

Claim 25 (**new**): A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.